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Country: JP Japan

Kind: A2 Document Laid open to Public inspection

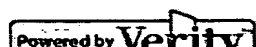
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TOBISHIMA YOICHIRO;  
SUDO RYOHEI;**Assignee: **YKK ARCHITECTURAL PRODUCTS INC  
YKK CORP**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **2002-08-28 / 2001-02-21**Application Number: **JP2001000044980**IPC Code: **E05D 15/26; E06B 3/48;**Priority Number: **2001-02-21 JP2001000044980**Abstract: **PROBLEM TO BE SOLVED:** To provide a folding door capable of reducing a worker's burden and making the work easier during the installation.**SOLUTION:** For the folding door 1, the whole of shojis 20A and 20B and a coupling stile 30 united to one body is supported by one worker and is fixed to a vertical frame 13 of a window frame 10 through a hinge 60A and, at this time, a temporarily placed member 80 is provided at the vertical frame 13. Thus, a burden to a worker supporting it can be reduced by placing once a rotating piece of a hinge 60 on the temporarily placed member 80 and thus the erection work for the shojis 20A and 20B can be performed easily even by one person. Also, when the temporarily placed member 80 is attached in advance near the fixed position of the hinge 60A at the vertical frame 13, the positioning of the hinge 60A for the vertical frame 13 can be easily performed and the positioning work can be also performed easily and quickly.

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Family: None

Other Abstract Info: [DERABS G2002-663193](#) [DERABS G2002-663193](#)

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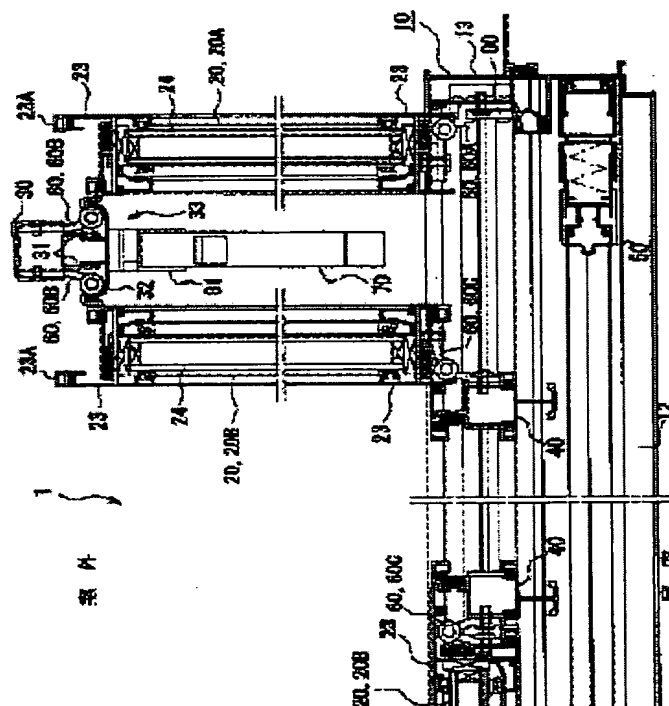
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## FOLDING DOOR

**Patent number:** JP2002242523  
**Publication date:** 2002-08-28  
**Inventor:** NAKAGAWA HIROYOSHI; WATANABE SATOSHI;  
 TOBISHIMA YOICHIRO; SUDO RYOHEI  
**Applicant:** YKK ARCHITECTURAL;; YKK CORP  
**Classification:**  
 - **International:** E05D15/26; E06B3/48  
 - **European:**  
**Application number:** JP20010044980 20010221  
**Priority number(s):** JP20010044980 20010221

### Abstract of JP2002242523

**PROBLEM TO BE SOLVED:** To provide a folding door capable of reducing a worker's burden and making the work easier during the installation. **SOLUTION:** For the folding door 1, the whole of shojis 20A and 20B and a coupling stile 30 united to one body is supported by one worker and is fixed to a vertical frame 13 of a window frame 10 through a hinge 60A and, at this time, a temporarily placed member 80 is provided at the vertical frame 13. Thus, a burden to a worker supporting it can be reduced by placing once a rotating piece of a hinge 60 on the temporarily placed member 80 and thus the erection work for the shojis 20A and 20B can be performed easily even by one person. Also, when the temporarily placed member 80 is attached in advance near the fixed position of the hinge 60A at the vertical frame 13, the positioning of the hinge 60A for the vertical frame 13 can be easily performed and the positioning work can be also performed easily and quickly.



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ては、ヒンジ60Aを介して障子20A、20Bおよび連結框30全体の垂直荷重を支持できる構成であればよく、見付け側係止部や見込み側係止部が一体に設けられている必要はない。さらに、そのような係止部が一切設けられない場合でも、本発明に含まれる。

【0032】前記実施形態の折戸1は、一対の障子20A、20Bを2組備えていたが、1組だけ備えた場合でもよく、3組以上設けた場合でも、本発明に含まれる。

【0033】

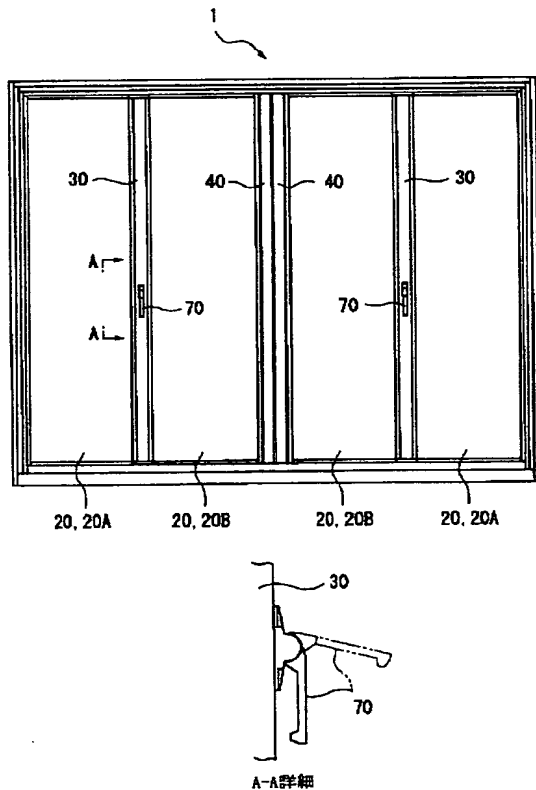
【発明の効果】以上に述べたように、本発明の折戸によれば、作業者の負担を軽減でき、設置時の作業を容易にできるという効果がある。

【図面の簡単な説明】

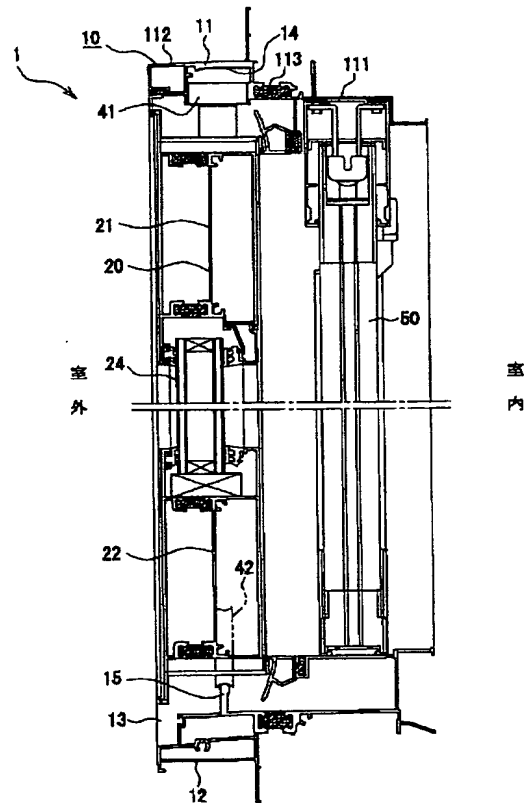
【図1】本発明の一実施形態に係る折戸を示す内観図である。

【図2】前記実施形態の折戸を示す縦断面図である。

【図1】



【図2】



【図3】前記実施形態の折戸を示す横断面図である。

【図4】前記実施形態の折戸が開けられた状態を示す横断面図である。

【図5】前記実施形態の折戸の開閉状態を模式的に示す平面図である。

【図6】前記実施形態の構成部材を拡大して示す斜視図である。

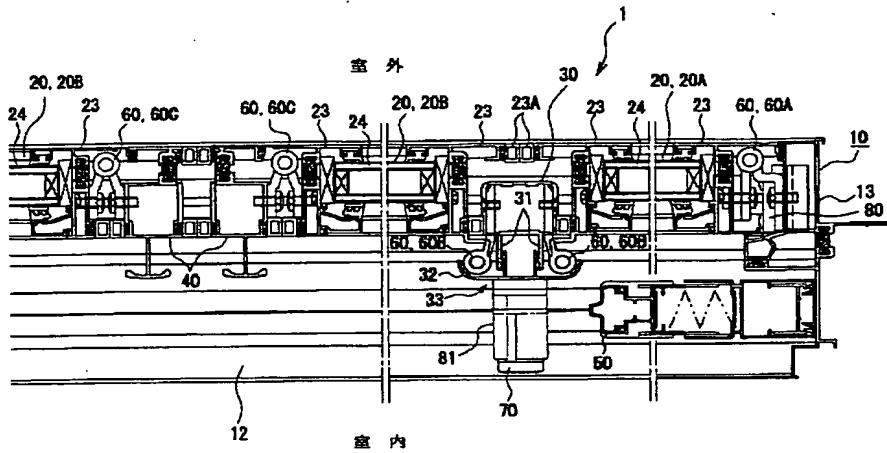
【図7】前記実施形態の設置手順を説明するための模式図である。

【図8】本発明の変形例を説明するための模式図である。

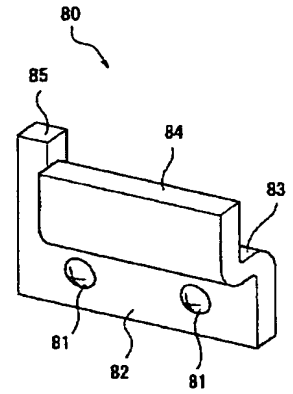
【符号の説明】

1…折戸、10…窓枠、13…縦枠、20、20A、20B…障子、30…連結框、60A…継手部材であるヒンジ、80…仮置き部材、84…見付け側係止部、85…見込み側係止部。

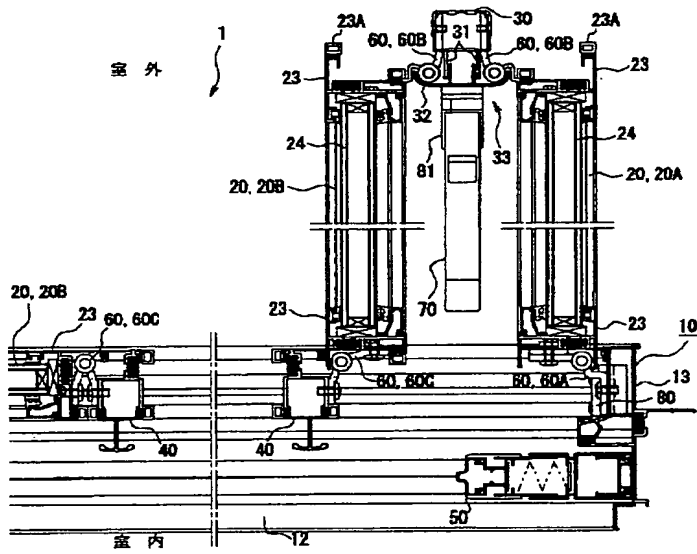
【図3】



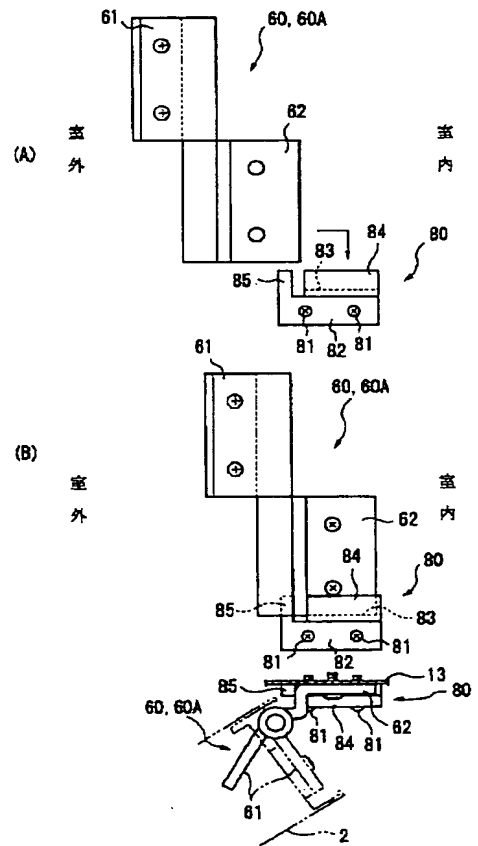
【図6】



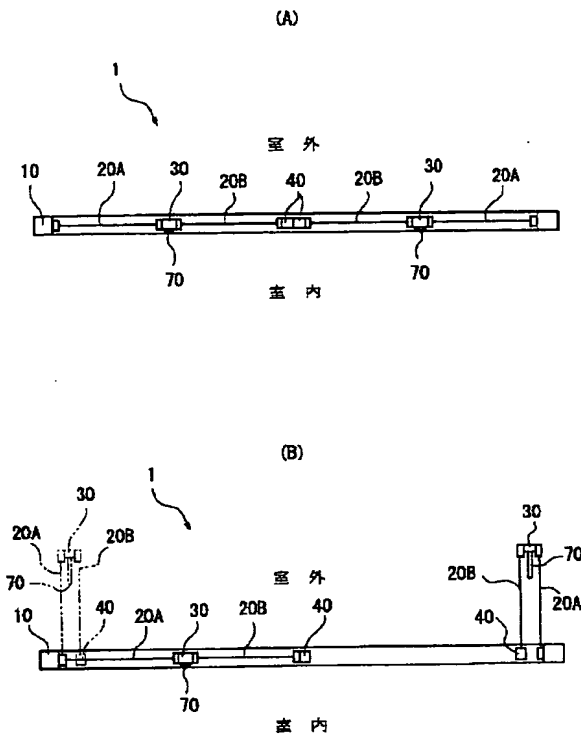
【図4】



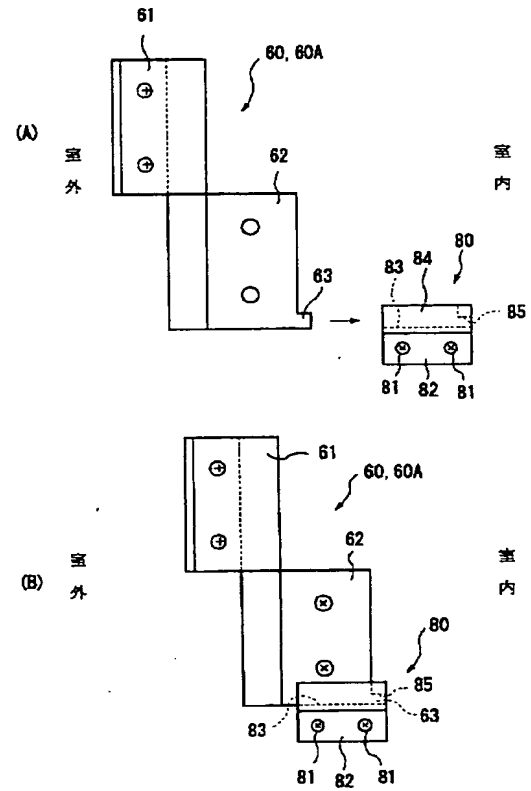
【図7】



【図5】



【図8】



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